

2012 - Mazda6 - Body and Accessories

NO. 11 MALFUNCTION WARNING LIGHT ILLUMINATES [INSTRUMENT CLUSTER (WITH MALFUNCTION WARNING LIGHT)]

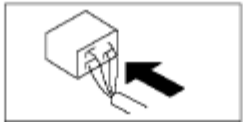
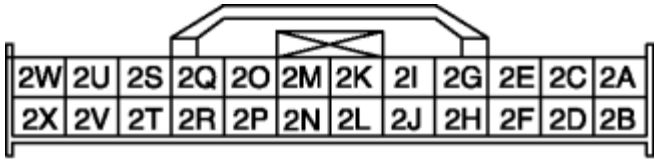
10	Malfunction warning light illuminates
POSSIBLE CAUSE	• PCM malfunction • Instrument cluster malfunction • Connector or pin malfunction • Short circuit in wiring harness between CAN-L, CAN-H and ground • Open circuit in CAN wiring harness (CAN-L, CAN-H) • CAN wiring harness (CAN-L, CAN-H) short each other • Malfunction in brake switch signal input to PCM (PCM stores DTC P0571:00 and/or P0703:00.)

Diagnostic procedure

STEP	INSPECTION	ACTION
1	• Start the engine. • Does the malfunction warning light turn off?	Yes Troubleshooting completed. (The system is normal.)
		No Go to the next step.
2	• Retrieve DTC from the PCM using the M-MDS. (See ON-BOARD DIAGNOSTIC TEST [MZR 2.5].) • Is the DTC P0571:00 and/or P0703:00 present?	Yes Go to applicable DTC inspection. (See DTC P0571:00 [MZR 2.5] .) (See DTC P0703:00 [MZR 2.5] .)
		No Go to the next step.
3	• Start the engine. • Verify that the warning and indicator lights condition. • Do two or more lights illuminate at the same	Yes Go to the Step 5.
		No Go to the next step.

	time?		
4	- Turn off the malfunction warning light using M-MDS instrument cluster active command modes WL+IL. (See ACTIVE COMMAND MODES TABLE [INSTRUMENT CLUSTER].) - Does the malfunction warning light turn off according to active command modes?	Yes	Inspect the connector condition of the following parts: - Instrument cluster - PCM If connector connection is poor: - Connect the connector of each part securely. If malfunction occurs on part side: - Replace each part. If malfunction occurs on vehicle wiring harness side: - Repair or replace the pins or connector.
		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION.)
5	- Retrieve DTC from the instrument cluster using the M-MDS. (See DTC INSPECTION [INSTRUMENT CLUSTER].) - Is the DTC detected?	Yes	Go to the applicable DTC troubleshooting procedure. (See DTC TABLE [INSTRUMENT CLUSTER].)
		No	Go to the next step.
6	- Disconnect the negative battery cable. - Measure the resistance between the DLC-2 terminals F and E. - Is the resistance below 60 ohms?	Yes	Go to the next step.
		No	Go to Step 9.

7	• Disconnect the negative battery cable. • Inspect the DLC-2 terminals F and E for short to power supply or ground. • Is there any malfunction?	Yes	Inspect the wiring harness and CAN system-related module. Repair or replace the malfunctioning part.
		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION.)
8	• Switch the ignition to off. • Inspect the instrument cluster connector terminals for poor connection (such as damaged/pulled-out pins, and corrosion). • Are the terminals normal?	Yes	Go to the next step.
		No	Repair or replace the terminal.
9	• Disconnect the negative battery cable. • Measure the resistance between the instrument cluster connector terminals 2X and 2W. • Is the resistance 114—126 ohms?	Yes	Inspect the wiring harness and CAN system-related module. Repair or replace the malfunctioning part.
		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION.)



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9	• Disconnect the negative battery cable. • Measure the resistance between the instrument cluster connector terminals 2X and 2W. • Is the resistance 114—126 ohms?	Yes	Inspect the wiring harness and CAN system-related module. Repair or replace the malfunctioning part.
		No	Replace the instrument cluster. (See INSTRUMENT CLUSTER REMOVAL/ INSTALLATION.)